Pipeline Open Data Standard

PODS 5.0 Final Release

Physical Data Model

Physical Data Model
Model: PODS_5_FINAL
Package:
Diagram: PODS
Author: PODS Association, Inc. Date: 11/2/2009
Version: Release 5.0 Final

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Stationed Centerline

Line

Line_GUID	CHAR(38)	<pk>	not null
Designator	VARCHAR(50)		not null
Description	VARCHAR(254)		null
Type_CC	VARCHAR(16)	<fk1>	not null
System_Type_CL	VARCHAR(16)	<fk2>	not null

Line_Hierarchy

Line_Hierarchy_GUID	CHAR(38)	<pk>	not null
Parent_Line_GUID	CHAR(38)	<fk1>	null
Child_Line_GUID	CHAR(38)	<fk2>	null
Hierarchy_Level_CL	VARCHAR(16)	<fk3>	null

Route

Route_GUID	CHAR(38)	<pk>	not null
Line_GUID	CHAR(38)	<fk1>	not null
Event_GUID	CHAR(38)		null
Description	VARCHAR(254)		null
Type_CC	VARCHAR(16)	<fk2>	not null
Current_Indicator_LF	CHAR(1)		not null
Previous_Route_GUID	CHAR(38)	<fk3>	null
From_Date	DATE		not null
Effective_To_Date	DATE		null
Original_Route_GUID	CHAR(38)		null
PODS_User	VARCHAR(30)		null
Create_Date	DATE		not null
Interstate_LF	CHAR(1)		null

Transform

Transform_GUID	CHAR(38)	<pk>	not null
Description	VARCHAR(254)		null

Network

Network_GUID	CHAR(38)	<pk>	not null
Description	VARCHAR(254)		null

Measure_Transform

Meas_Trans_GUID	CHAR(38)	<pk>	not null
Series_GUID	CHAR(38)	<fk1>	not null
Transform_Begin_Station	NUMBER(10,2)		null
Transform_End_Station	NUMBER(10,2)		null
Alt_Measure_Prefix	VARCHAR(16)		null
Scale_Factor	NUMBER(10,2)		null
Offset	NUMBER(10,2)		null
Transform_GUID	CHAR(38)	<fk1>	null

Network_Junction

Junction_GUID	CHAR(38)	<pk>	not null
Junction_Desc	VARCHAR(255)		null
Network_GUID	CHAR(38)	<fk>	not null

Network_Segment

Event_GUID	CHAR(38)	<pk,fk1>	not null
From_Junction_GUID	CHAR(38)	<fk2>	null
To_Junction_GUID	CHAR(38)	<fk3>	null
Description	VARCHAR(50)		null
Comments	VARCHAR(255)		

Series

Series_GUID	CHAR(38)	<pk>	not null
Description	VARCHAR(254)		null
Series	NUMBER(16)		not null
Station_Begin	NUMBER(10,2)		not null
Station_End	NUMBER(10,2)		not null
Ascending	NUMBER(2)		null
Route_GUID	CHAR(38)	<fk1>	not null
Original_Series_GUID	CHAR(38)		null
Original_Series_GUID	CHAR(38)	<fk2>	null
Current_Indicator_LF	CHAR(1)		not null
Effective_From_Date	DATE		not null
Effective_To_Date	DATE		null
PODS_User	VARCHAR(30)		null
Create_Date	DATE		not null

Location

Location_GUID	CHAR(38)	<pk>	not null

Event_Group

Event_Group_GUID	CHAR(38)	<pk>	not null
Group_Name	VARCHAR(254)		null
Parent_Event_Group_GUID	CHAR(38)	<fk>	null

Event_Group_Cross_Ref

Event_GUID	CHAR(38)	<pk,fk2>	not null
Event_Group_GUID	CHAR(38)	<pk,fk1>	not null
Description	VARCHAR(254)		null
Comments	VARCHAR(255)		null

Station_Point

Station_GUID	CHAR(38)	<pk>	not null
Station	NUMBER(10,2)		not null
Series_GUID	CHAR(38)	<fk1>	not null
Location_GUID	CHAR(38)	<fk2>	not null
Ahead	NUMBER(10,4)		null
Measure	NUMBER(12,2)		null
PODS_User	VARCHAR(30)		null
Create_Date	DATE		not null

Location

GPS_Point

GPS_Point_GUID	CHAR(38)	<pk>	not null
Coordinate_GUID	CHAR(38)	<fk1>	not null
Ref_Event_GUID	CHAR(38)	<fk1>	not null
Type_CL	VARCHAR(16)	<fk2>	not null
Description	VARCHAR(250)		null
GPS_Parameters_GUID	CHAR(38)	<fk2>	not null
Standard_Dev	FLOAT		null
HDOP	FLOAT		null
PDOP	FLOAT		null
VDOP	FLOAT		null
TDOP	FLOAT		null
HPE	FLOAT		null
VPE	FLOAT		null
TPE	FLOAT		null
SATS	FLOAT		null
DAGE	FLOAT		null
DSID	FLOAT		null
Date_Collected	DATE		null
Source_GCL	VARCHAR(16)	<fk4>	null

GPS_Parameters

GPS_Parameters_GUID	CHAR(38)	<pk>	not null
Datum	VARCHAR(254)		null
Description	VARCHAR(254)		null
Date_Collected	DATE		null
Correction_Method_CL	VARCHAR(16)	<fk3>	null
Receiver_Type_CL	VARCHAR(16)	<fk1>	null
Source_GCL	VARCHAR(16)	<fk2>	null

Coordinate

Coordinate_GUID	CHAR(38)	<pk>	not null
Coordinate_Source_GUID	CHAR(38)	<fk1>	null
Event_GUID	CHAR(38)		null
Description	VARCHAR(254)		null
X_Coord	FLOAT(15)		not null
Y_Coord	FLOAT(15)		not null
Z_Coord	FLOAT(15)		null
Horiz_Indicator_LF	CHAR(1)		null
Vert_Indicator_LF	CHAR(1)		null
Current_Indicator_LF	CHAR(1)		not null
Previous_Coordinate_GUID	CHAR(38)	<fk4>	null
Effective_From_Date	DATE		not null
Effective_To_Date	DATE		null
Original_Coordinate_GUID	CHAR(38)		null
Accuracy_CL	VARCHAR(16)	<fk5>	null
Validity_Tolerance	NUMBER(7,4)		null
Create_Date	DATE		not null
PODS_User	VARCHAR(30)		null

Coordinate_Source

Coordinate_Source_GUID	CHAR(38)	<pk>	not null
Source_Name	VARCHAR(30)	<fk1>	not null
Source_Type_CL	VARCHAR(16)	<fk2>	not null
Create_Date	DATE		not null
Method_CL	VARCHAR(16)	<fk3>	null
Operator_CL	VARCHAR(16)	<fk4>	null
Accuracy_CL	VARCHAR(16)	<fk5>	null
Coordinate_Sys_GUID	CHAR(38)	<fk1>	null

Monument

Monument_GUID	CHAR(38)	<pk>	not null
Coordinate_GUID	CHAR(38)	<fk1>	null
Ref_Event_GUID	CHAR(38)	<fk1>	null
Type_CL	VARCHAR(16)	<fk2>	not null
Description	VARCHAR(254)		null
Monument_Condition_CL	VARCHAR(16)	<fk4>	null
Comments	VARCHAR(255)		null

Coordinate_Sys

Coordinate_Sys_GUID	CHAR(38)	<pk>	not null
Coordinate_Sys_Sys	VARCHAR(16)		null
Description	VARCHAR(254)		null
Entity_Type_Name	VARCHAR(240)		not null
Entity_Type_Name_CL	VARCHAR(16)	<fk1>	null
Prime_Meridian_CL	VARCHAR(16)	<fk4>	null
R_Axis_Orint_Kind	VARCHAR(240)		null
R_Cord_Sys_Cnv_Name	VARCHAR(240)		not null
R_Display_Orint	VARCHAR(240)		null
R_Map_Proj_Kind	VARCHAR(240)		null
R_Naming_System_Kind	VARCHAR(240)		null
Source_GCL	VARCHAR(16)	<fk3>	null
Source_Reference	VARCHAR(16)		null
Status_CL	VARCHAR(16)	<fk2>	null
Version	VARCHAR(240)		null
Vertex_S	VARCHAR(19)		null
Vertex_T	VARCHAR(16)		null

Centerline_Geo_Cross_Ref

Centerline_Geo_Cross_Ref_GUID	CHAR(38)	<pk>	not null
Event_GUID	CHAR(38)	<fk1>	not null
Centerline_Geo_GUID	CHAR(38)	<fk2>	not null
Previous_CL_Geo_Cross_Ref_GUID	CHAR(38)	<fk3>	null
Original_CL_Geo_Cross_Ref_GUID	CHAR(38)		null
Current_Indicator_LF	CHAR(1)		not null
Effective_From_Date	DATE		not null
Effective_To_Date	DATE		null
PODS_User	VARCHAR(30)		null
Create_Date	DATE		not null

Centerline_Geometry

Centerline_Geo_GUID	CHAR(38)	<pk>	not null
Source_Name	VARCHAR(30)		not null
Purpose	VARCHAR(10)		null
Create_Date	DATE		not null

Profile

Event_GUID	CHAR(38)	<pk,fk1>	not null
Type_CL	VARCHAR(16)	<fk4>	not null
Elevation	NUMBER(8,1)		not null
Elevation_OUOM	VARCHAR(16)	<fk3>	not null
Description	VARCHAR(50)		null
Source_GCL	VARCHAR(16)	<fk2>	null
Active_Indicator_LF	CHAR(1)		null
Comments	VARCHAR(255)		null

Geographic Features

Road

Event_GUID	CHAR(38)	<pk,fk1>	not null
Type_CL	VARCHAR(16)	<fk4>	not null
Surface_CL	VARCHAR(16)	<fk3>	null
Intersection_Angle	NUMBER(3)		null
Source_Number	VARCHAR(16)		null
Scaled_GCL	VARCHAR(16)	<fk5>	null
Direction_GCL	VARCHAR(16)	<fk6>	null
Width	NUMBER(4)		null
Geographic_Entity_GUID	CHAR(38)	<fk5>	null
Casing_Indicator_LF	CHAR(1)		null
Description	VARCHAR(250)		null
Source_GCL	VARCHAR(16)	<fk2>	null
Comments	VARCHAR(255)		null

Routing_Note

Event_GUID	CHAR(38)	<pk,fk1>	not null
Type_CL	VARCHAR(16)	<fk4>	not null
Source_Number	VARCHAR(16)		null
ANG_Degrees	NUMBER(3)		null
ANG_Minutes	NUMBER(2)		null
ANG_Seconds	NUMBER(2)		null
BRG_Northing	VARCHAR(1)		null
BRG_Degrees	NUMBER(2)		null
BRG_Minutes	NUMBER(2)		null
BRG_Seconds	NUMBER(2)		null
BRG_Easting	VARCHAR(1)		null
Scaled_GCL	VARCHAR(16)	<fk3>	null
Description	VARCHAR(250)		null
Source_GCL	VARCHAR(16)	<fk2>	null
Comments	VARCHAR(255)		null

Sheet_Note

Event_GUID	CHAR(38)	<pk,fk1>	not null
Type_CL	VARCHAR(16)	<fk4>	not null
Source_Number	VARCHAR(16)		null
Scaled_GCL	VARCHAR(16)	<fk5>	null
Direction_GCL	VARCHAR(16)	<fk6>	null
Intersection_Angle	NUMBER(3)		null
Description	VARCHAR(250)		null
Source_GCL	VARCHAR(16)	<fk2>	null
Comments	VARCHAR(255)		null

Notes

Notes_GUID	CHAR(38)	<pk>	not null
Table_ID	VARCHAR(16)		null
Notes	VARCHAR(2000)		null
Notes_Date	DATE		null
Notes_By	VARCHAR(16)	<fk2>	null
Original_Notes_GUID	CHAR(38)		null
Effective_To_Date	DATE		null
Effective_From_Date	DATE		null
PODS_User	VARCHAR(30)		null
Create_Date	DATE		null
Previous_Notes_GUID	CHAR(38)	<fk1>	null

Right_of_Way

Event_GUID	CHAR(38)	<pk,fk1>	not null
Type_GCL	VARCHAR(16)	<fk2>	not null
Parcel_Number	VARCHAR(32)		null
Owner_Name	VARCHAR(100)		null
Property_Width	NUMBER(10)		null
Easement_Width	NUMBER(10)		null
Address	VARCHAR(255)		null
Geographic_Entity_GUID	CHAR(38)	<fk4>	null
Description	VARCHAR(250)		null
Source_GCL	VARCHAR(16)	<fk3>	null
Comments	VARCHAR(255)		null

Waterway

Event_GUID	CHAR(38)	<pk,fk1>	not null
Type_CL	VARCHAR(16)	<fk5>	not null
Navigable_LF	CHAR(1)		null
Scaled_GCL	VARCHAR(16)	<fk4>	null
Direction_GCL	VARCHAR(16)	<fk5>	null
Source_Number	VARCHAR(16)		null
Width	NUMBER(10)		null
Geographic_Entity_GUID	CHAR(38)	<fk3>	null
Description	VARCHAR(250)		null
Source_GCL	VARCHAR(16)	<fk2>	null
Comments	VARCHAR(255)		null

Land_Use

Event_GUID	CHAR(38)	<pk,fk1>	not null
Type_GCL	VARCHAR(16)	<fk2>	not null
Description	VARCHAR(50)		null
Source_GCL	VARCHAR(16)	<fk3>	null
Comments	VARCHAR(255)		null

Geographic_Entity

Entity_GUID	CHAR(38)	<pk>	not null
Name	VARCHAR(30)		null
Description	VARCHAR(254)		null
Shape_GCL	VARCHAR(16)	<fk1>	null
Shape_GUID	CHAR(38)	<fk2>	null

Event_Range

Event_GUID	CHAR(38)	<pk>	not null
Feature_ID	VARCHAR(16)	<fk1>	not null
Previous_Event_GUID	CHAR(38)	<fk2>	null
Station_GUID_Begin	CHAR(38)	<fk4>	null
Station_GUID_End	CHAR(38)	<fk3>	null
Length	NUMBER(18,2)		null
Stack_Length	NUMBER(18,2)		null
PODS_User	VARCHAR(30)		null
Create_Date	DATE		null
Original_Event_GUID	CHAR(38)		null
Effective_From_Date	DATE		not null
Effective_To_Date	DATE		null
Current_Indicator_LF	CHAR(1)		not null
Validity_Tolerance	NUMBER(7,4)		null
Positioning_Type_CL	VARCHAR(16)	<fk5>	null

Feature_Table

Feature_ID	VARCHAR(16)	<pk,fk4>	not null
Type_CL	VARCHAR(16)	<fk1>	not null
Category_CL	VARCHAR(16)	<fk2>	not null
Description	VARCHAR(254)		null
History_Table_Name	VARCHAR(30)		null
Is_Route_Event	VARCHAR(16)	<fk3>	null
Feature_Status_GCL	VARCHAR(16)	<fk5>	null
History_Location_CL	VARCHAR(16)	<fk7>	null

Event Reports

Report

Report_GUID	CHAR(38)	<pk>	not null
Owner	VARCHAR(20)		null
Report_Date	DATE		not null
Type_CL	VARCHAR(16)	<fk2>	not null
Remark	VARCHAR(240)		null
Submitted_Report_GUID	CHAR(38)	<fk1>	null
Status_CL	VARCHAR(16)	<fk3>	null

Report_Cross_Ref

Report_Cross_Ref_GUID	CHAR(38)	<pk>	not null
Report_GUID	CHAR(38)	<fk2>	not null
Event_GUID	CHAR(38)	<fk4>	not null
Report_Cross_Ref_Status_CL	VARCHAR(16)	<fk3>	null
Previous_Cross_Ref_GUID	CHAR(38)		null
Effective_To_Date	DATE		null
Effective_From_Date	DATE		not null
Current_Indicator_LF	CHAR(1)		not null
Create_Date	DATE		not null
Previous_Report_Cross_Ref_GUID	CHAR(38)	<fk1>	null

External_Document

External_Document_GUID	CHAR(38)	<pk>	not null
Filepath	VARCHAR(2000)		null
Filename	VARCHAR(2000)		null
Report_GUID	CHAR(38)	<fk>	not null

Boundary Tables

Legacy_Line_Boundary

Event_GUID	CHAR(38)	<pk,fk1>	not null
Legacy_Line_GUID	CHAR(38)	<fk2>	not null
Description	VARCHAR(50)		null
Source_GCL	VARCHAR(16)	<fk3>	null
Comments	VARCHAR(255)		null

County_Boundary

Event_GUID	CHAR(38)	<pk,fk1>	not null
State_GCL	VARCHAR(16)	<fk3,fk4>	not null
FIPS_Code	CHAR(3)	<fk>	not null
Description	VARCHAR(50)		null
Source_GCL	VARCHAR(16)	<fk2>	null
Comments	VARCHAR(255)		null

Township_Boundary

Event_GUID	CHAR(38)	<pk,fk1>	not null
Township_Direction	CHAR(1)		null
Township_Number	VARCHAR(4)		null
Range_Direction	CHAR(1)		null
Range_Number	VARCHAR(3)		null
Section_Number	CHAR(2)		null
Datum	CHAR(3)		null
Source_Survey_CL	VARCHAR(16)	<fk2>	null
Description	VARCHAR(50)		null
Source_GCL	VARCHAR(16)	<fk3>	null
Comments	VARCHAR(255)		null

Tax_District_Boundary

Event_GUID	CHAR(38)	<pk,fk1>	not null
Tax_District_GUID	CHAR(38)	<fk2>	not null
Description	VARCHAR(50)		null
Source_GCL	VARCHAR(16)	<fk3>	null
Comments	VARCHAR(255)		null

Status_Range

Event_GUID	CHAR(38)	<pk>	not null
Operating_Status_GCL	VARCHAR(16)	<fk1>	not null
Description	VARCHAR(50)		null
Source_GCL	VARCHAR(16)	<fk2>	null
Comments	VARCHAR(255)		null

Owner_Range

Event_GUID	CHAR(38)	<pk,fk1>	not null
Company_GCL	VARCHAR(16)	<fk2>	not null
Percent_Interest	NUMBER(7,3)		null
Description	VARCHAR(250)		null
Source_GCL	VARCHAR(16)	<fk3>	null
Comments	VARCHAR(255)		null

Operator_Range

Event_GUID	CHAR(38)	<pk,fk1>	not null
Company_GCL	VARCHAR(16)	<fk2>	not null
Description	VARCHAR(250)		null
Source_GCL	VARCHAR(16)	<fk1>	null
Comments	VARCHAR(255)		null

Product_Range

Event_GUID	CHAR(38)	<pk,fk1>	not null
Product_Type_SCL	VARCHAR(16)	<fk2>	not null
Product_Subtype_SCL	VARCHAR(16)	<fk2>	null
Description	VARCHAR(50)		null
Source_GCL	VARCHAR(16)	<fk3>	null
Comments	VARCHAR(255)		null

Inline Inspections

ILI_Inspection

ILI_Inspection_GUID	CHAR(38)	<pk>	not null
Begin_Date	DATE		null
End_Date	DATE		null
Tool_Type_CL	VARCHAR(16)	<fk1>	null
Tool_Vendor_CL	VARCHAR(16)	<fk2>	null
Sampling_Frequency	VARCHAR(16)		null
Navigation	VARCHAR(16)		null
Mode	VARCHAR(50)		null
Sensor_CL	VARCHAR(16)	<fk5>	null
Sensor_Spacing_Min	NUMBER(8,4)		null
Sensor_Spacing_Max	NUMBER(8,4)		null
Max_Temp	NUMBER(4)		null
Min_Temp	NUMBER(4)		null
Max_Velocity	NUMBER(7,3)		null
Min_Velocity	NUMBER(7,3)		null
Avg_Velocity	NUMBER(7,3)		null
Rated_Max_Velocity	NUMBER(7,3)		null
Rated_Max_WT	NUMBER(5,3)		null
Start_Odometer	NUMBER(16,3)		null
End_Odometer	NUMBER(16,3)		null
Tether_Prob_CL	VARCHAR(16)	<fk3>	null
Source_GCL	VARCHAR(16)	<fk4>	null
Comments	VARCHAR(255)		null

ILI_Range

Event_GUID	CHAR(38)	<pk,fk1>	not null
Smart_Pigging_LF	CHAR(1)		null
Piggable_LF	CHAR(1)		null
Date_Last_Piggable	DATE		null
Description	VARCHAR(50)		null
Source_GCL	VARCHAR(16)	<fk2>	null
Comments	VARCHAR(255)		null

Inspection_Contact

ILI_Inspection_GUID	CHAR(38)	<pk,fk1>	not null
Contact_GUID	CHAR(38)	<pk,fk2>	not null

ILI_Inspection_Range

ILI_Inspection_Range_GUID	CHAR(38)	<pk>	not null
Event_GUID	CHAR(38)	<fk3>	null
Work_Order_GUID	CHAR(38)	<fk2>	null
Start_Kilometer	NUMBER(16,3)		null
End_Kilometer	NUMBER(16,3)		null
Sequence_Number	NUMBER(5)		null
ILI_Inspection_GUID	CHAR(38)	<fk1>	null
Launcher_Event_GUID	CHAR(38)	<fk3>	null
Receiver_Event_GUID	CHAR(38)	<fk4>	null
Weld_Start_Number	FLOAT		null
Weld_Increment	NUMBER(4)		null
Weld_Count	NUMBER(16,3)		null
Comments	VARCHAR(255)		null

Foreign_Line_Crossing

Event_GUID	CHAR(38)	<pk,fk1>	not null
Type_CL	VARCHAR(16)	<fk2>	not null
Owner_CL	VARCHAR(16)	<fk3>	null
Line_Clearance	NUMBER(4,1)		null
Material_CL	VARCHAR(16)	<fk2>	null
Foreign_Diameter	NUMBER(6,3)		null
Encasing_Date	DATE		null
Intersection_Angle	NUMBER(3)		null
Scaled_Depth	NUMBER(8,3)		null
Scaled_GCL	VARCHAR(16)	<fk5>	null
Direction_GCL	VARCHAR(16)	<fk7>	null
Width	NUMBER(4)		null
Geographic_Entity_GUID	CHAR(38)	<fk5>	null
Description	VARCHAR(250)		null
Line_Below_Ground_LF	CHAR(1)		null
Line_Below_Ground_Clear	NUMBER(4)		null
Crossing_Below_Line_LF	CHAR(1)		null
Foreign_Bond_LF	CHAR(1)		null
Source_GCL	VARCHAR(16)	<fk1>	null
Comments	VARCHAR(255)		null

Railroad

Event_GUID	CHAR(38)	<pk,fk1>	not null
Type_CL	VARCHAR(16)	<fk2>	not null
Operator_CL	VARCHAR(16)	<fk3>	null
Intersection_Angle	NUMBER(3)		null
Source_Number	VARCHAR(16)		null
Scaled_GCL	VARCHAR(16)	<fk5>	null
Direction_GCL	VARCHAR(16)	<fk6>	null
Width	NUMBER(4)		null
Geographic_Entity_GUID	CHAR(38)	<fk4>	null
Casing_Indicator_LF	CHAR(1)		null
Description	VARCHAR(250)		null
Source_GCL	VARCHAR(16)	<fk3>	null
Comments	VARCHAR(255)		null

Structure

Event_GUID	CHAR(38)	<pk,fk1>	not null
Type_CL	VARCHAR(16)	<fk2>	not null
Name	VARCHAR(32)		null
Segment_Count	VARCHAR(32)		null
Occupancy_Category_GCL	VARCHAR(16)	<fk7>	null
Determination_Date	DATE		null
Determination_Method_GCL	VARCHAR(16)	<fk3>	null
Site_Address_GUID	CHAR(38)	<fk5>	null
Contact_GUID	CHAR(38)	<fk6>	null
Source_GCL	VARCHAR(16)	<fk4>	null

Valve

Event_GUID	CHAR(38)	<pk,fk1>	not null
Valve_Identifier	VARCHAR(32)		null
Name	VARCHAR(50)		null
Outside_Diameter_Inlet_GCL	NUMBER(8,4)	<fk9>	null
Outside_Diameter_Outlet_GCL	NUMBER(8,4)	<fk10>	null
Type_CL	VARCHAR(16)	<fk2>	null
Model	VARCHAR(32)		null
Manufacturer_CL	VARCHAR(16)	<fk2>	null
Date_Manufactured	DATE		null
Specification_CL	VARCHAR(16)	<fk3>	null
Mill_Test_Pressure	NUMBER(5)		null
Nominal_Pressure_Rating	NUMBER(5)		null
Nominal_Pressure_Rating_Inlet	NUMBER(5)		null
Nominal_Pressure_Rating_Outlet	NUMBER(5)		null
Material_CL	VARCHAR(16)	<fk5>	null
Function_CL	VARCHAR(16)	<fk7>	null
Joint_Type_CL	VARCHAR(16)	<fk6>	null
Material_CL	VARCHAR(16)	<fk8>	null
Description	VARCHAR(50)		null
Source_GCL	VARCHAR(16)	<fk5>	null
Comments	VARCHAR(255)		null

Populated_Area

Offline_GUID	CHAR(38)	<pk>	not null
Type_CL	VARCHAR(16)	<fk5>	null
Name	VARCHAR(32)		null
Occupant_Count	NUMBER(8)		null
Occupancy_Category_GCL	VARCHAR(16)	<fk4>	null
Determination_Date	DATE		null
Determination_Method_GCL	VARCHAR(16)	<fk5>	null
Site_Address_GUID	CHAR(38)	<fk7>	null
Contact_GUID	CHAR(38)	<fk8>	null
Source_GCL	VARCHAR(16)	<fk1>	null

HCA_Identified_Site

HCA_Identified_Site_GUID	CHAR(38)	<pk>	not null
Offline_GUID	CHAR(38)	<fk1>	not null
Type_CL	VARCHAR(16)	<fk2>	null
Description	VARCHAR(254)		null
Visible_External_Signage_LF	CHAR(1)		null
Frequency_Of_Use_CL	VARCHAR(16)	<fk3>	null
Occupants_Reduced_Mobility_LF	CHAR(1)		null
Outdoor_Gathering_LF	CHAR(1)		null
Source_GCL	VARCHAR(16)	<fk4>	null

Pipe_Segment

Event_GUID	CHAR(38)	<pk,fk1>	not null
Manufacturer_CL	VARCHAR(16)	<fk3>	null
Date_Manufactured	DATE		null
Pipe_Mill_Location_GCL	VARCHAR(16)	<fk3>	null
Mill_Test_Pressure	NUMBER(5)		null
Material_CL	VARCHAR(16)	<fk4>	null
Pipe_Specification_GCL	VARCHAR(16)	<fk5>	null
Pipe_Grade_GCL	VARCHAR(16)	<fk6>	null
SMYS_GCL	VARCHAR(16)	<fk7>	null
Outside_Diameter_GCL	NUMBER(8,4)	<fk8>	null
Nominal_Wall_Thickness_GCL	NUMBER(8,4)	<fk9>	null
Pipe_Long_Seam_GCL	VARCHAR(16)	<fk10>	null
Description	VARCHAR(50)		null
Source_GCL	VARCHAR(16)	<fk2>	null
Comments	VARCHAR(255)		null

Casing

Event_GUID	CHAR(38)	<pk,fk1>	not null
Crossing_Type_CL	VARCHAR(16)	<fk6>	not null
Insulator_Type_CL	VARCHAR(16)	<fk7>	null
Seal_Type_CL	VARCHAR(16)	<fk8>	null
Vented_Indicator_LF	CHAR(1)		null
Quantity_of_Vents	NUMBER(8)		null
Vent_Spacing	NUMBER(8,4)	<fk11>	null
Date_Manufactured	DATE		null
Pipe_Mill_Location_GCL	VARCHAR(16)	<fk4>	null
Material_CL	VARCHAR(16)	<fk12>	null
Pipe_Specification_GCL	VARCHAR(16)	<fk5>	null
SMYS_GCL	VARCHAR(16)	<fk6>	null
Pipe_Grade_GCL	VARCHAR(16)	<fk7>	null
Outside_Diameter_GCL	NUMBER(8,4)	<fk9>	null
Nominal_Wall_Thickness_GCL	NUMBER(8,4)	<fk10>	null
Pipe_Long_Seam_GCL	VARCHAR(16)	<fk11>	null
Date_Installed	DATE		null
Description	VARCHAR(250)		null
Source_GCL	VARCHAR(16)	<fk3>	null
Comments	VARCHAR(255)		null

Vent_Pipe

Event_GUID	CHAR(38)	<pk,fk1>	not null
Name	VARCHAR(32)		null
Manufacturer_CL	VARCHAR(16)	<fk8>	null
Date_Manufactured	DATE		null
Pipe_Mill_Location_GCL	VARCHAR(16)	<fk2>	null
Mill_Test_Pressure	NUMBER(5)		null
Material_CL	VARCHAR(16)	<fk3>	null
Pipe_Specification_GCL	VARCHAR(16)	<fk4>	null
Outside_Diameter_GCL	NUMBER(8,4)	<fk6>	null
Nominal_Wall_Thickness_GCL	NUMBER(8,4)	<fk7>	null
Pipe_Long_Seam_GCL	VARCHAR(16)	<fk5>	null
Description	VARCHAR(50)		null
Source_GCL	VARCHAR(16)	<fk1>	null
Comments	VARCHAR(255)		null

Launcher_Receiver

Event_GUID	CHAR(38)	<pk,fk1>	not null
Type_CL	VARCHAR(16)	<fk2>	not null
Name	VARCHAR(50)		null
Date_Installed	DATE		null
Description	VARCHAR(50)		null
Closure_Valve_Length	NUMBER(5,2)		null
Closure_Reducer_Length	NUMBER(5,2)		null
Tray_Length	NUMBER(5,2)		null
Sep_Sump	NUMBER(5,2)		null
Mitered_Radius	NUMBER(5,2)		null
Working_Near_Trap_LF	CHAR(1)		null
Trap_Pressure_Rating	NUMBER(5)		null
Trap_Closure_Type_CL	VARCHAR(16)	<fk6>	null
Trap_Status_CL	VARCHAR(16)	<fk7>	null
Electricity_Available_LF	CHAR(1)		null
Hoist_Available_LF	CHAR(1)		null
Trap_Length	NUMBER(5,2)		null
Trap_Height	NUMBER(5,2)		null
Trap_Valve_Out_Diameter_GCL	NUMBER(8,4)	<fk13>	null
Trap_Valve_Type_CL	VARCHAR(16)	<fk8>	null
Kicker_Bypass_Location_CL	VARCHAR(16)	<fk5>	null
Kicker_Bypass_Out_Diameter_GCL	NUMBER(8,4)	<fk12>	null
Bridle_Outside_Diameter_GCL	NUMBER(8,4)	<fk11>	null
Reducer_Material_CL	VARCHAR(16)	<fk3>	null
Reducer_Wall_Thickness_GCL	NUMBER(8,4)	<fk9>	null
Reducer_Type_GCL	VARCHAR(16)	<fk9>	null
Reducer_Length	NUMBER(5,2)		null
Axial_Clearance_Width	NUMBER(5,2)		null
Axial_Clearance_Length	NUMBER(5,2)		null
Overbore_Outside_Diameter_GCL	NUMBER(8,4)	<fk4>	null
Overbore_Length	NUMBER(5,2)		null
Source_GCL	VARCHAR(16)	<fk3>	null
Comments	VARCHAR(255)		null

Closure

Event_GUID	CHAR(38)	<pk,fk1>	not null
Type_CL	VARCHAR(16)	<fk2>	not null
Manufacturer_CL	VARCHAR(16)	<fk3>	null
Date_Manufactured	DATE		null
Outside_Diameter_GCL	NUMBER(8,4)	<fk5>	null
Nominal_Wall_Thickness_GCL	NUMBER(8,4)	<fk6>	null
Specification_CL	VARCHAR(16)	<fk4>	null
Nominal_Pressure_Rating	NUMBER(5)		null
Mill_Test_Pressure	NUMBER(5)		null
Material_CL	VARCHAR(16)	<fk5>	null
Date_Installed	DATE		null
Description	VARCHAR(250)		null
Source_GCL	VARCHAR(16)	<fk6>	null
Comments	VARCHAR(255)		null

Elbow

Event_GUID	CHAR(38)	<pk,fk1>	not null
Outside_Diameter_Inlet_GCL	NUMBER(8,4)	<fk6>	null
Outside_Diameter_Outlet_GCL	NUMBER(8,4)	<fk7>	null
Nominal_Wall_Thickness_GCL	NUMBER(8,4)	<fk5>	null
Type_CL	VARCHAR(16)	<fk2>	null
Radius	NUMBER(8,4)		null
Manufacturer_CL	VARCHAR(16)	<fk2>	null
Date_Manufactured	DATE		null
Specification_CL	VARCHAR(16)	<fk3>	null
Material_CL	VARCHAR(16)	<fk4>	null
Mill_Test_Pressure	NUMBER(5)		null
Nominal_Pressure_Rating	NUMBER(5)		null
Description	VARCHAR(50)		null
Source_GCL	VARCHAR(16)	<fk1>	null
Comments	VARCHAR(255)		null

Flange

| Event_GUID | CHAR(38) | <pk,fk1> | not null |